

Figure 1

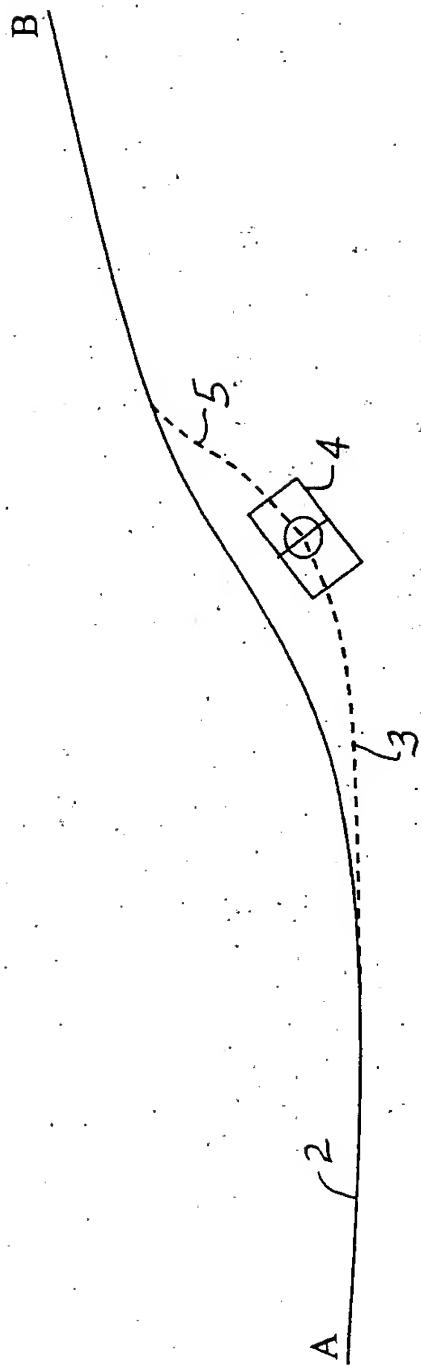
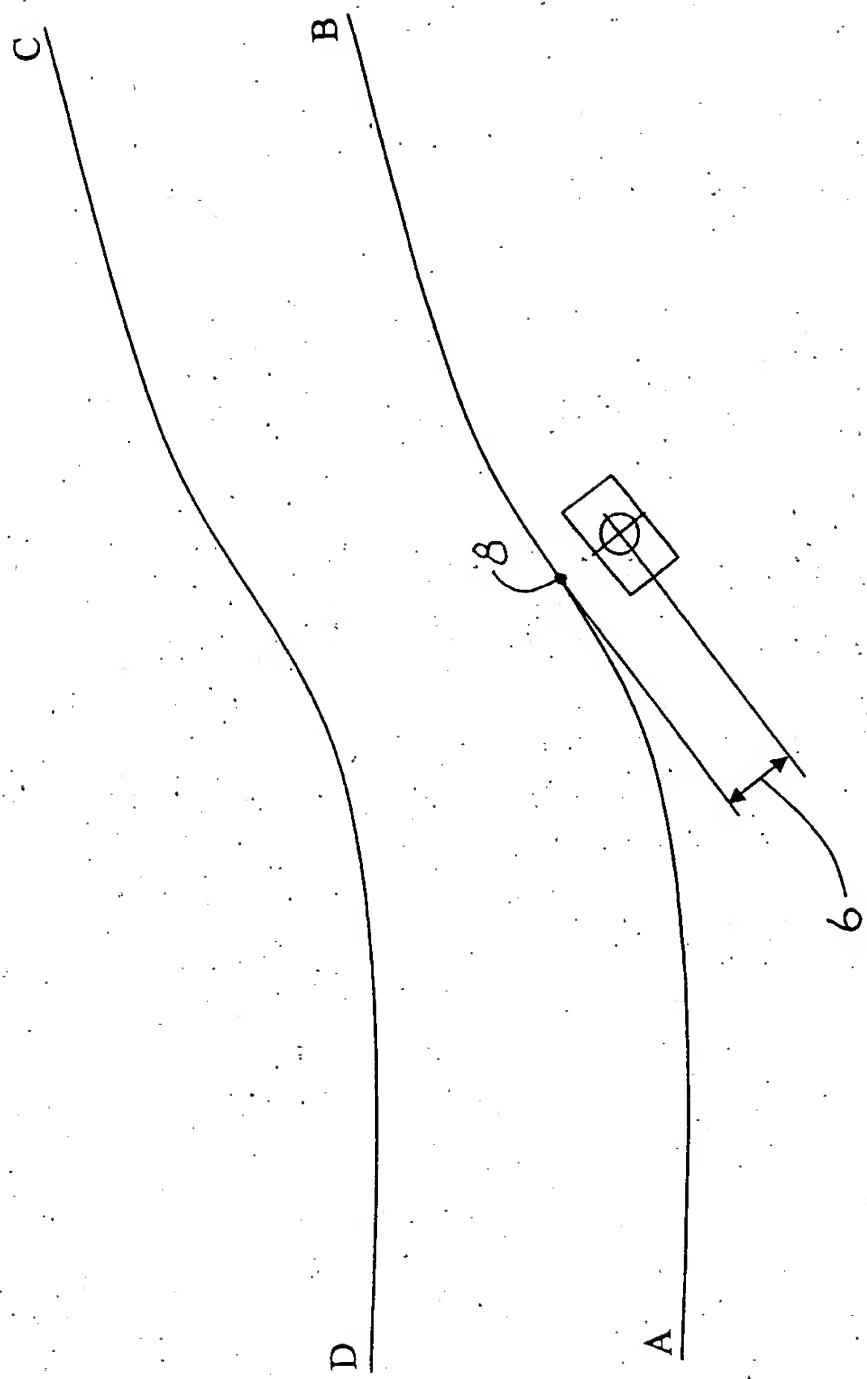


Figure 2



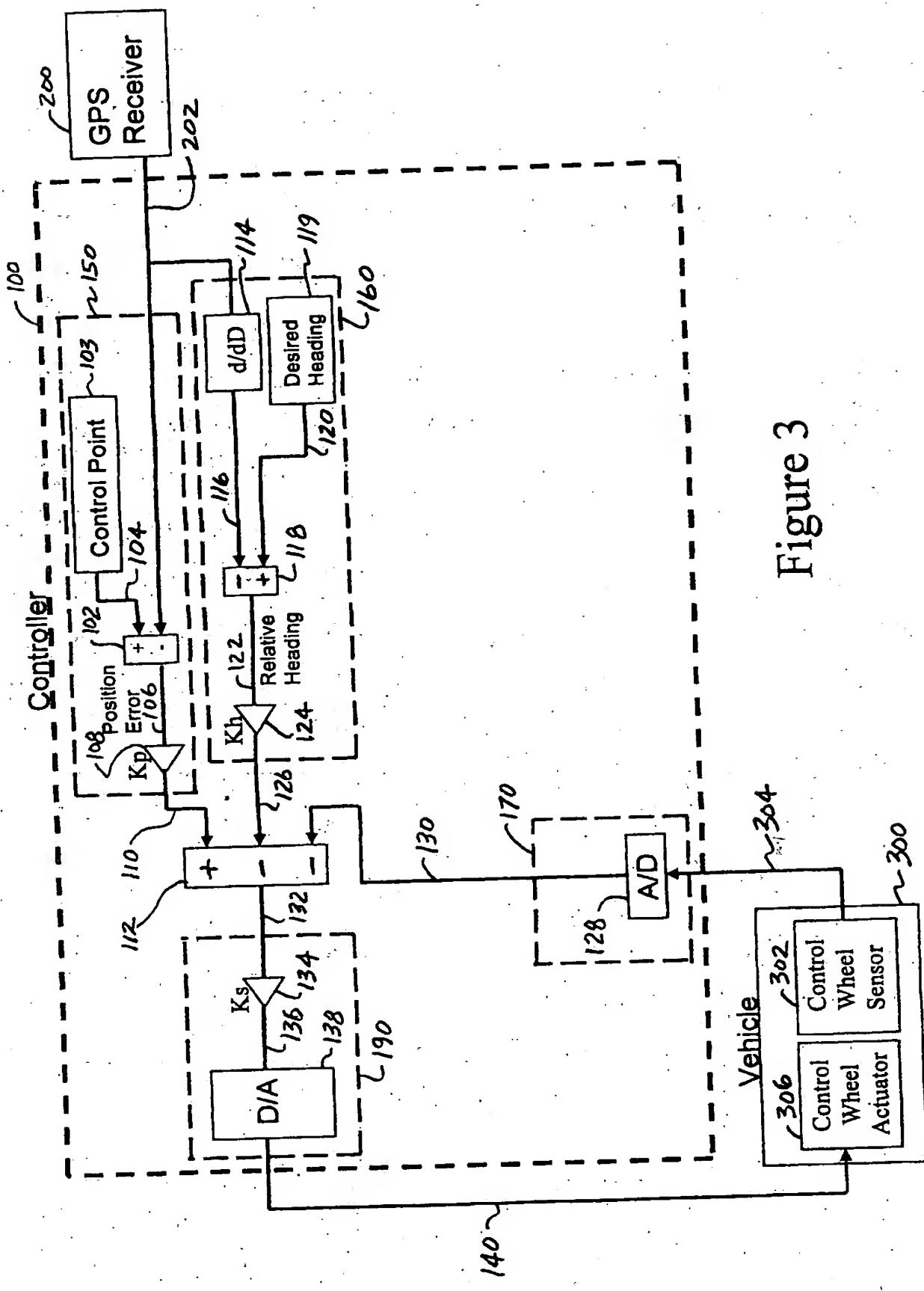


Figure 3

$$T(S) = \frac{K_p * K_s * K_g * K_v}{S^3 * (\text{velocity}) + S^2 * (K_s * K_g) + S * (K_s * K_g * K_v * K_h) + (K_p * K_v * K_s * K_g)}$$

Figure 4A

Vehicle Dynamic Model

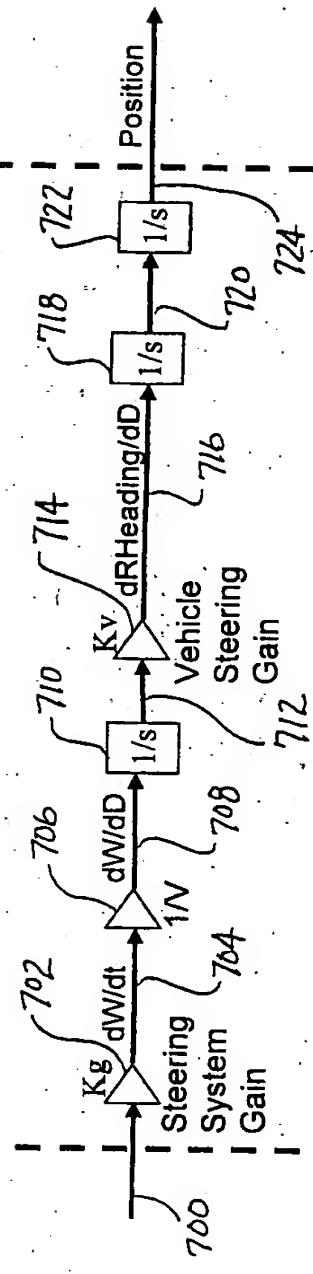


Figure 4B

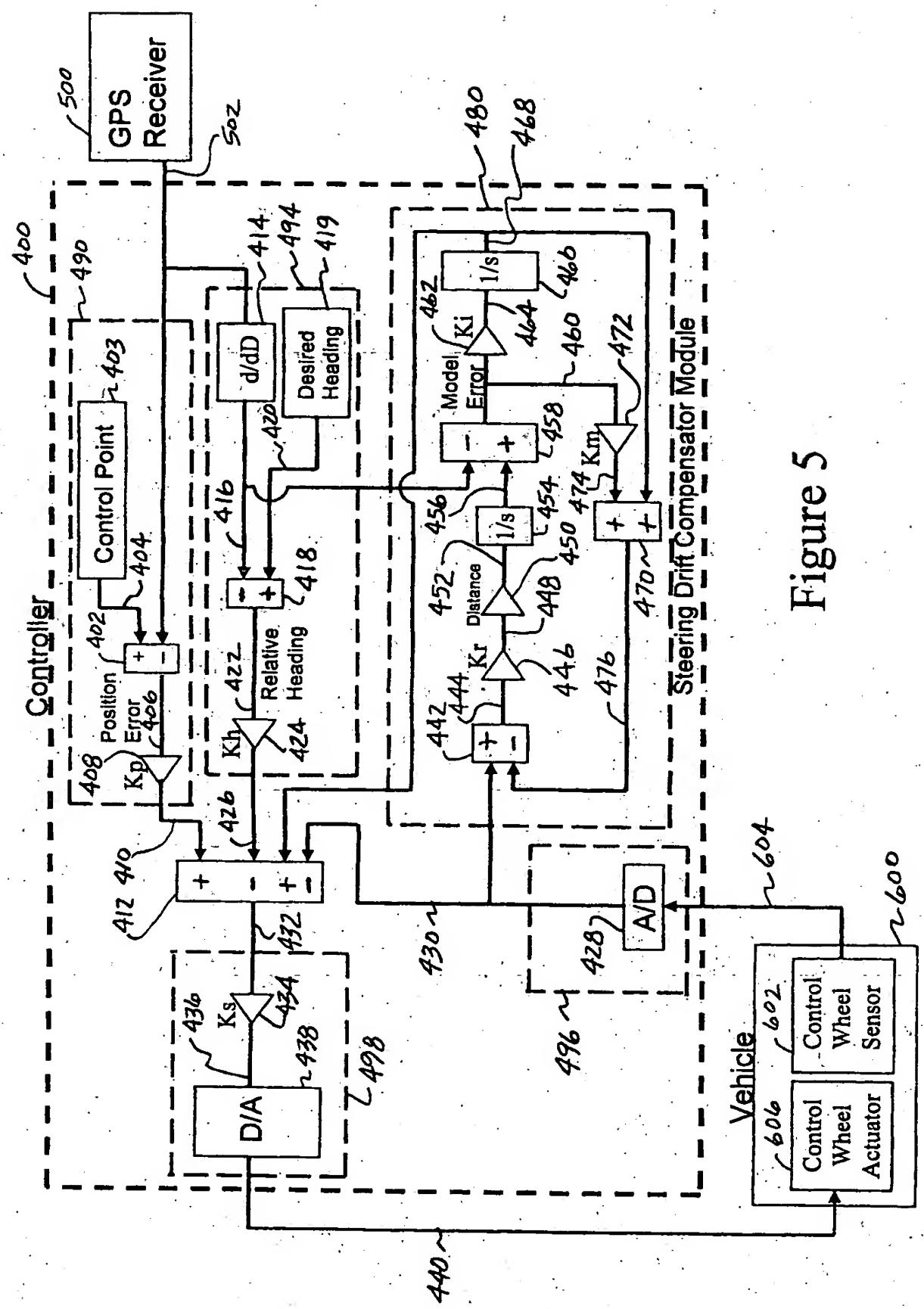
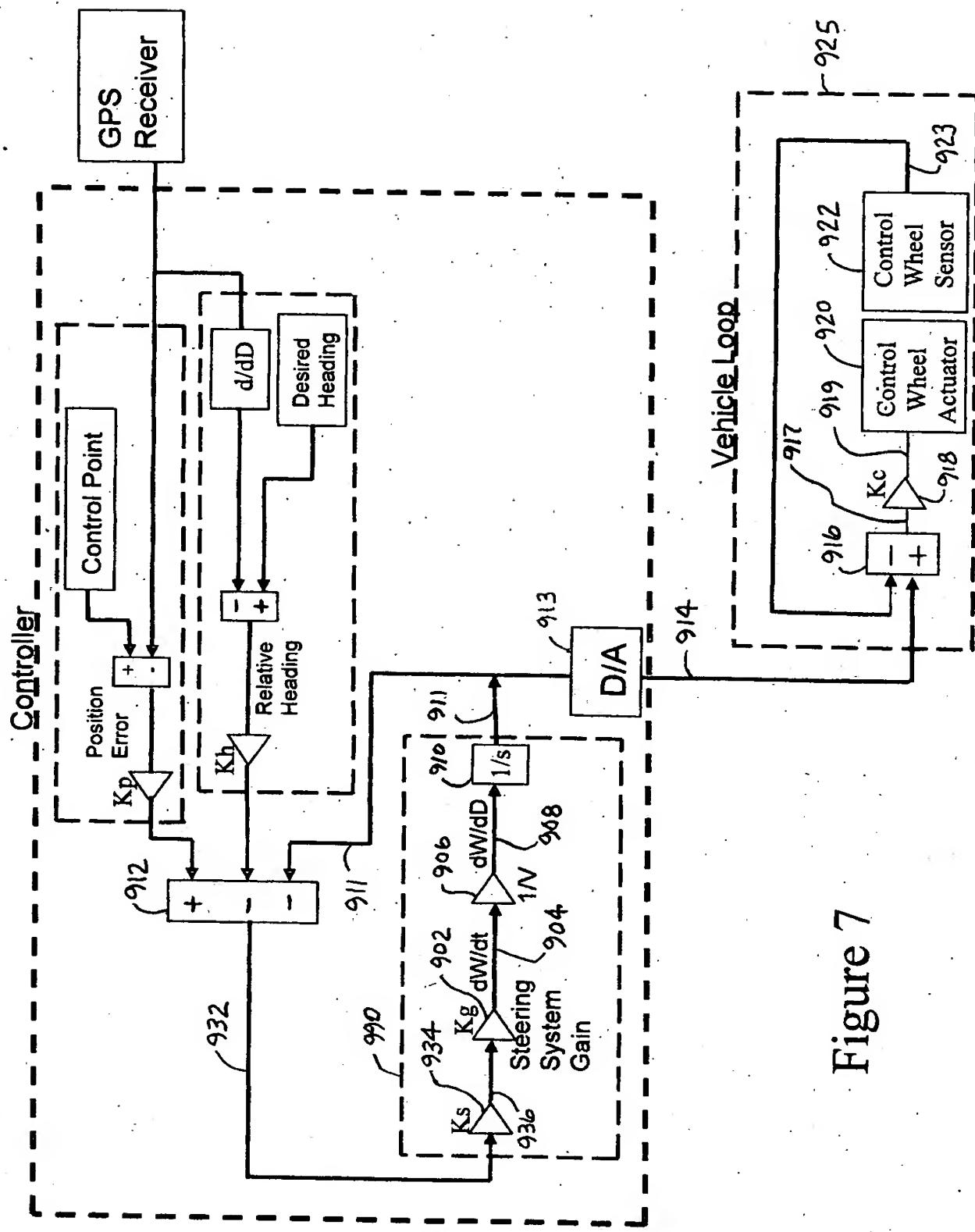


Figure 5



Figure 6



**Figure 7**

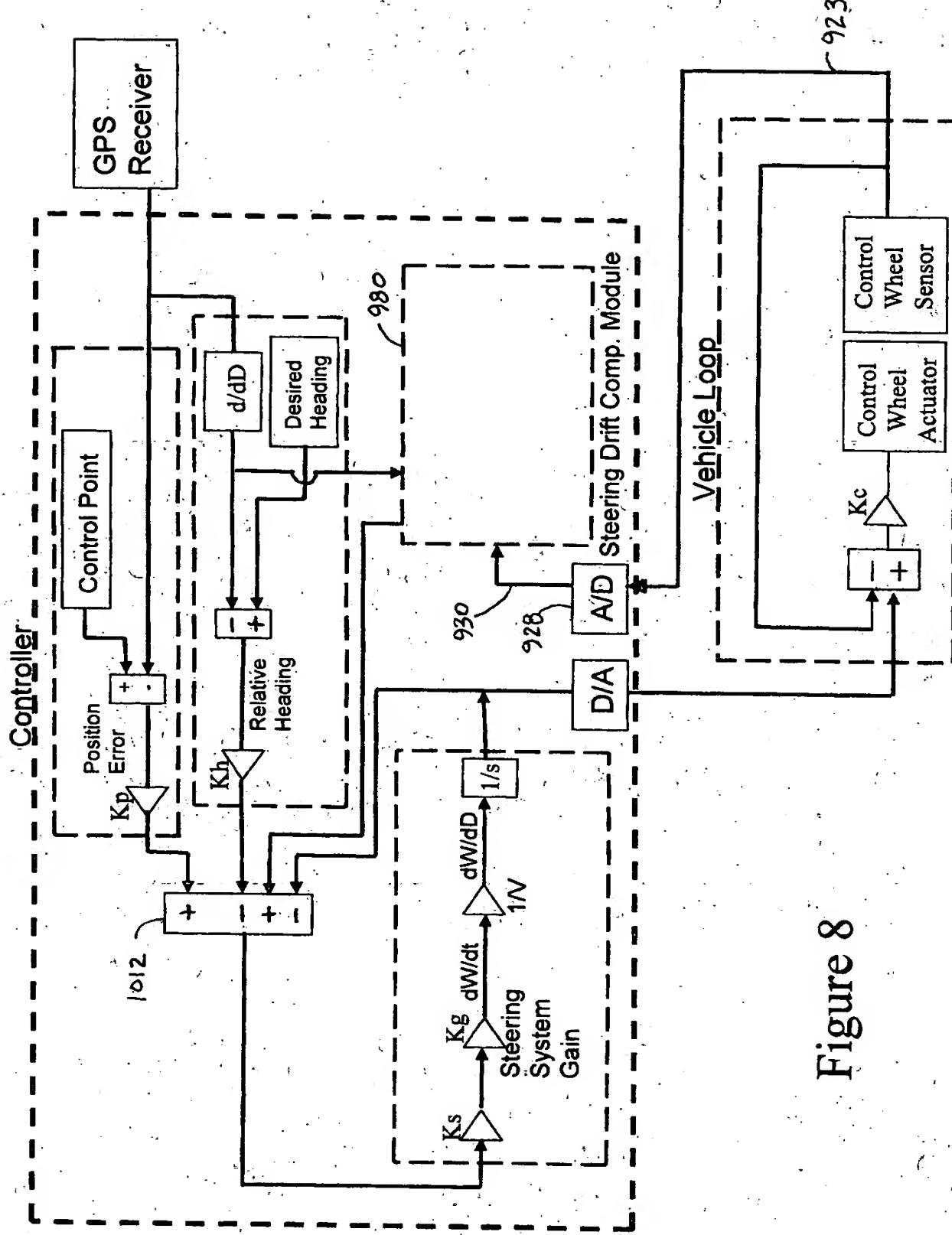


Figure 8